TABLE OF CONTENTS

12.0 SOILS AND WATER RESOURCES

12.1 WASTEWATER VOLUME, QUALITY, TREATMENT

The projected consumption of the Hanford Energy Park Peaker (HEPP) will be 140 gallons per minute, 16 hours per day during the months of May through October. The maximum estimated discharge from the HEPP will be 20 gallons per minute during normal operation.

Discharges of surface water during the operations phase will not be released to the Lakeside Ditch or to the surrounding ground surface. Water from plant and equipment drains will be collected, treated to remove oil and grease, and routed to the GWF Hanford cogeneration plant cooling tower basin. All discharge systems will be constructed and operated in compliance with applicable codes and regulations, including Chapter 13 of the City of Hanford municipal code (monitoring and reporting requirements for an industrial user). Process wastewater from the HEPP site will be discharged to the City of Hanford Wastewater Treatment Plant. The permit to discharge will be modified for any additional volume exceeding the existing permit limits.

12.2 STATUS OF PERMITS (WDR/NPDES)

There are waste discharge conditions for the existing GWF Hanford cogeneration plant in the Industrial Waste Water Discharge Permit with the City of Hanford. The wastewater discharge from the HEPP will be discharged through an existing connection and under the provisions in an existing permit. No new discharge will be required with the HEPP.

12.3 DRAFT EROSION PREVENTION AND SEDIMENTATION CONTROL PLAN OR MITIGATION STRATEGY

Construction design and construction practices will minimize soil erosion during construction and operation of all facilities associated with the HEPP. Soil erosion will be minimized by implementing recommendations from the Natural Resource Conservation Service Office headquartered in Hanford.

After grading and compacting, the soil excavated from the HEPP site will be revegetated or covered with a synthetic mat as necessary to reduce the potential for wind and water erosion. The HEPP site will be graded and will have drainage controls. Best management practices (BMPs) will be implemented to control erosion during construction activities. These measures will be described in the storm water pollution prevention plan (SWPPP) required by the General Storm Water Permit for Construction. The following measures are proposed to reduce construction impacts to minimal levels:

- Describe BMPs to minimize erosion in the SWPPP prior to construction and implement the BMPs during and after construction. Surface soil protection may include the use of mulches, synthetic netting material, riprap, and the compacting of native soil.
- Conduct all construction activities in accordance with California's General Industrial Storm Water Permit for Construction Sites, including the erosion control measures in the SWPPP and BMPs to reduce erosion and the transport of increased suspended sediment from construction areas.

- In the construction area, soil should be graded and compacted to ensure that soil is not left in irregular piles that are more susceptible to water and wind erosion. Seeding will be performed in the areas where natural vegetation has been distressed or removed by construction activity.

The HEPP will conform to applicable standards in the National Engineering Handbook to ensure that the project will not cause soil loss though accelerated erosion. The proposed mitigation measures outline steps to be taken during grading and construction to limit soil erosion caused by the soil disturbance.

12.4 SPILL PREVENTION/WATER QUALITY PROTECTION PLANS

Construction and operation of the HEPP will be carried out under the same Spill Prevention, Control, and Countermeasure (SPCC) Plan used for the existing plant. The SPCC Plan will be prepared in accordance with federal and California regulations. This plan must be prepared if petroleum products stored on-site in aboveground storage tanks with a capacity that equals or exceeds 660 gallons for a single tank, or equals or exceeds 1,320 gallons for more than one tank. The SPCC Plan must be prepared prior to delivery of petroleum products to the site. The SPCC Plan will include information on spill response procedures and fuel storage.